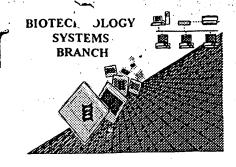
RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/828,307
Source:	OIPE
Date Processed by STIC:	4-23-01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 c-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 c-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

OIPE

RAW SEQUENCE LISTING DATE: 04/23/2001 PATENT APPLICATION: US/09/828,307 TIME: 13:16:47

Input Set : A:\PTO.txt

Output Set: N:\CRF3\04232001\1828307.raw

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C>	12	<140	> C	URRE	T A	PPLI	CATI	IN NO	JMBEI	R: US	S/09,	/828	,307					Does No	Needeu Needeu
C>		<141																a racked Di	2Kerro
		<150									09/60	08,83	21					Collecto	6
		<151								5-30								600	p, o
		<160								. 2 (^)-	•
		<170 <210					encr	ı ve	STO	1 3.1	U								
		<211																	
		<212				, , ,													
	22	<213> ORGANISM: Homo sapiens																	
		4 <220> FEATURE:																	
	25	<221> NAME/KEY: CDS																	
		<222> LOCATION: (38)(2635)																	
		3 <400> SEQUENCE: 1																	
	30	9 ccaagttcta cctcatgttt ggaggatctt gctagct atg gcc ctc gta ctc ggc 55 Met Ala Leu Val Leu Gly																	
	31											Me	C Ala	а те	u va.	ı Lei 5	ı Gıy	,	
		tcc	cta	tta	cta	cta	aaa	cta	tac	aaa	aac		+++	tca	aaa	-	сал	103	
		Ser	_	-	_	_		_									_	103	
	35				10		1		-1-	15					20	V-1			
	37	cct	tca	tcc	aca	gat	gct	cct	aag	gct	tgg	aat	tat	gaa	ttg	cct	gca	151	•
	38	Pro	Ser	Ser	Thr	Asp	Ala	Pro	Lys	Ala	Trp	Asn	Tyr	${\tt Glu}$	Leu	Pro	Ala	•	
	39			25					30					35					
		aca																199	
	42	Thr	Asn 40	Tyr	GIu	Thr	Gin	_	ser	HIS	Lys	Ala	-	Pro	шe	GLY	lle		
		ctc		ora a	ct a	ata	cat	45 atc	+++	ctc	tat	ata	50	C2C	000	cat	an t	247	
		Leu																247	
	47			014			60			Lou	-1-	65	, 41	0111	,	9	70		
	49	ttc	cca	gaa	gat	act	ttg	aga	aaa	ttc	tta	cag	aag	gca	tat	gaa	tcc	295	
	50	Phe	Pro	Glu	Asp	Thr	Leu	Arg	Lys	Phe	Leu	Gln	Lys	Ala	Tyr	Glu	Ser		
	51					75					80					85			
		aaa																343	
		Lys	Ile	Asp		Asp	Lys	Pro	Glu		Val	Ile	Leu	Gly		Lys	Ile		
	55 57	a+ a .	+	+ - +	90	~ ~ ~ ~ ~ ~ ~ ~ ~ ~	~~~	-++	~++	95	+~~	+~+	~+~	~+~	100			201	
		gtc Val												_		_	_	391	•
	59	, u 1	+1+	105	JIU	11IU	JIY	116	110	Leu	Cy 5	Cys	7 a 1	115	GTÄ	пеп	neu		
		ttt	att	-	ctq	atq	cct	cta		qqq	tat	ttc	ttt		ato	tat	cat	439	
		Phe																	
	63		120					125	,		-		130	•			-		



RAW SEQUENCE LISTING DATE: 04/23/2001 PATENT APPLICATION: US/09/828,307 TIME: 13:16:47

Input Set : A:\PTO.txt

Output Set: N:\CRF3\04232001\1828307.raw

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	Cys 135	Cys	Asn	Lys	Cys	Gly 140	Gly	GLu	Met	His	Gln 145	Arg	Gln	Lys	Glu	Asn 150	
		CCC	ttc	ctg	аσσ		tac	+++	σca	atc		cta	tta	ata '	att		535
				Leu													
71	0_1				155	_, _	0,70			160					165	-1-	
73	ata	ata	ata	agc	att	ggc	atc	ttc	tat	ggt	ttt	gtg	gca	aat	cac	cag	583
				Ser									-			-	
75				170					175					180			
77	gta	aga	acc	cgg	atc	aaa	agg	agt	cgg	aaa	ctg	gca	gat	agc	aat	ttc	631
	Val	Arg		Arg	Ile	Lys	Arg		Arg	Lys	Leu	Ala	-	Ser	Asn	Phe	
79			185					190					195				670
	_	_	-	cga			_		_								679
	ьуs	-	Leu	Arg	Thr	Leu		Asn	GIU	Thr	Pro	210	GIn	тте	гàг	Tyr	
83	2+2	200	700	cag	+ 2.0	220	205	200	224	a = c	220		++0	202	a t	cta	727
		-	-	Gln					_	_	_				-	_	121
	215	пси	niu	GIII	111	220	1111	1111	נים	пор	225	mu	1 110	1111	пор	230	
		agt	atc	aat	tca		cta	gga	aac	qqa		ctt	gac	cqa	cta		775
		-		Asn									_	-	_	_	
91					235			-	-	240			_	-	245	-	
93	ccc	aac	atc	atc	cct	gtt	ctt	gat	gag	att	aag	tcc	atg	gca	aca	gcg	823
94	Pro	Asn	Ile	Ile	Pro	Val	Leu	Asp	Glu	Ile	Lys	Ser	Met	Ala	Thr	Ala	
95				250					255					260			_
				acc				-									871
98 99	He	Lys		Thr	Lys	Glu	Ala		GLu	Asn	Met	Asn	Ser 275	Thr	Leu	Lys	
	200	. ++0	265 7			2 at	- 202	270	· a++	200						gtg	919
																· Val	919
103		280		, 0111	OI.	DCI	285		ВСи			290			001	, , , ,	
				ctq	caa	tca			aat	gac	cct			ttq	gtq	cat	967
			_	-						_		_	_	_		His	
107	295					300					305	;				310	
109	cca	tca	agt	: gaa	acc	tgc	aac	ago	atc	aga	ı ttg	tct	cta	ago	cag	ctg	1015
		Ser	Ser	Glu		Cys	Asn	Ser	Ile	_		Ser	Leu	Ser		Leu	
111					315					320					325		
		_			-	_		-					_	-	-	ctt	1063
		Ser	Asn			Leu	Arg	GIn			Pro) Val	Asp			Leu	
115				330		a++	att	200	335		++0	. aat		340		caa	1111
																Gln	TTT
119		, MSI	345		asn	141	пси	350		ASP	, пса	. ASP	355		. , ,	. 0111	
		aac			tcc	ctt	aat			cct	gac	aga			Cac	caa	1159
	_							_			_	_	_		-	Gln	
123		360	_				365	_			_	370			-		
125	acc	acg	act	gtc	gta	gca	ggt	ato	aaa	agg	gto	ttg	aat	tcc	att	. ggt	1207
			Thr	· Val	Val	Ala	Gly	Ile	Lys	Arg	Val	Leu	Asn	Ser	Ile	Gly	
	375					380					385					390	
129	tca	gat	ato	gac	aat	gta	act	cag	cgt	ctt	cct	att	cag	gat	ata	ctc	1255



RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/828,307

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130 131	Ser	Asp	Ile	Asp	Asn 395	Val	Thr	Gln	Arg	Leu 400	Pro	Ile	Gln	Asp	Ile 405	Leu	
133	tca	qca	ttc	tct	qtt	tat	gtt	aat	aac	act	qaa	agt	tac	atc	cac	aga	1303
		-			_		_				_	_			His	_	
135				410		-1-			415				2 -	420		5	
	22+	++=	aat		++~	~~~	a a a	tat		+ ==	+=0	+ a a	taa		ggt	aac	1351
															Gly		1331
139	ASII	Leu			Leu	GIU	GIU	430	мър	ser	ıyı	пр	435	ьeu	СТУ	GIY	
			425								_4_						1200
	-	-		_		-	-								tac	-	1399
			тте	Cys	Ser	ьeu		Thr	Leu	rre	val		Pne	Tyr	Tyr	ьeu	
143		440					445					450					
			-	-			_			_			-		ccg		1447
	_	Leu	Leu	Cys	_		Cys	Gly	Tyr	Asp	-	His	Ala	Thr	Pro		
	455					460					465					470	
															gtt		1495
150	Thr	Arg	Gly	Cys	Val	Ser	Asn	Thr	Gly	Gly	Val	Phe	Leu	Met	Val	Gly	
151					475					480					485		
153	gtt	gga	tta	agt	ttc	ctc	ttt	tgc	tgg	ata	ttg	atg	atc	att	gtg	gtt	1543
															Val		
155		-		490				-	495					500			
	ctt	acc			ttt	aat	qca	aat	ata	gaa	aaa	cta	atc	tat	gaa	cct	1591
				-			-			-		_		_	Ğlu		
159	_,		505			1		510			-1-		515	-1-			
	tac	aca		aan	αaa	tta	ttc		att	tta	at	aca		tac	tta	cta	1639
															Leu		1033
163	ıyı	520	Ser	пуз	GIU	пец	525	Arg	Val	пеп	пар	530	rio	TYL	пеа	nea	
	+		~~~	+~~	~~~	+		ata	+ a+	~~~	224		+++	a a +	222	+ 00	1687
															aaa		1007
		GIU	ASP	тгр	GIU		TAT	Leu	ser	GIY		Leu	Pne	ASII	Lys		
	535	_ 4 _				540					545					550	1725
		_	_				_		-		_	-	-		aaa -		1735
	ьуs	Met	Lys	Leu		Phe	GLu	GIn	Val	-	Ser	Asp	Cys	rās	Lys	Asn	
171					555					560					565		
	_								_	_		_			atc	-	1783
	Arg	Gly	Thr	_	Gly	Thr	Leu	His		Gln	Asn	Ser	Phe		Ile	Ser	
175				570					575					580			
177	gaa	cat	ctc	aac	att	aat	gag	cat	act	gga	agc	ata	agc	agt	gaa	ttg	1831
178	Glu	His	Leu	Asn	Ile	Asn	Glu	His	Thr	Gly	Ser	Ile	Ser	Ser	Glu	Leu	
179			585					590					595				
181	gaa	agt	ctg	aag	gta	aat	ctt	aat	atc	ttt	ctg	ttg	ggt	gca	gca	gga	1879
182	Glu	Ser	Leu	Lys	Val	Asn	Leu	Asn	Ile	Phe	Leu	Leu	Gly	Ala	Ala	Gly	
183		600					605					610					
185	àga	aaa	aac	ctt	caq	gat	ttt	gct	qct	tqt	qqa	ata	gac	aga	atg	aat	1927
186	Arg	Lys	Asn	Leu	Gln	Asp	Phe	Ala	Ala	Cys	Gly	Ile	Asp	Arg	Met	Asn	
187	_	-				620				-	625		-	_		630	
		gac	age	tac	tta		caq	act	gat.	aaa		ccc	gca	qσa	gtg		1975
		_	_		_	-	_						-		Val		
191	-1-			-1-	635				~-1	640		0		1	645		
	ctt	tta	tca	+++		tat	gat	cta	gaa	-	aaa	aca	aac	agt	ttg	CCC	2023
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RAW SEQUENCE LISTING DATE: 04/23/2001 PATENT APPLICATION: US/09/828,307 TIME: 13:16:47

Input Set : A:\PTO.txt

Output Set: N:\CRF3\04232001\1828307.raw

105									- 								
195				650					655					660			
197	cca	gga	aat	ttg	agg	aac	tcc	ctg	aaa -	aga	gat	gca	caa	act	att	aaa	2071
	Pro	GLY			Arg	Asn	Ser			Arg	Asp	Ala		Thr	Ile	Lys	
199			665					670					675				
										ata							2119
202	Thr	Ile	His	Gln	Gln	Arg	Val	Leu	Pro	Ile	Glu	Gln	Ser	Leu	Ser	Thr	
203		680					685					690					
										cgc							2167
206	Leu	${ t Tyr}$	Gln	Ser	Val	Lys	Ile	Leu	Gln	Arg	Thr	Gly	Asn	Gly	Leu	Leu	
	695					700					705					710	
209	gag	aga	gta	act	agg	att	cta	gct	tct	ctg	gat	ttt	gct	cag	aac	ttc	2215
										Leu							
211					715					720	_				725		
213	atc	aca	aac	aat	act	tcc	tct	gtt	att	att	gag	qaa	act	aaq	aaq	tat	2263
										Ile							
215				730					735					740		-1-	
217	aga	aga	aca	ata	ata	σσa	tat	ttt	gaa	cat	tat	cta	cad		atc	gag	2311
										His							2311
219	1		745			011	-1-	750	014		-1	Dou	755		110	Olu	
	ttc	tct			σασ	aaa	ata		tca	tgc	aaa	cct		acc	200	act	2359
										Cys							2555
223		760		001	Olu	2,5	765	1114	DCI	Cys	ט עַנוּנ	770	vai	пла	1111	AIG	
	cta		act	act	att	gat		+++	cta	tgt	200		2++	ata	430	000	2407
226	Len	Acn	Thr	Δla	Val	Aen	Val	Dha	Lau	Cys	Sor	Tur	Tla	Tlo	yac Nan	Dro	2407
	775	nsp	1111	пти	· uı	780	VU.	FIIC	пец	Cys	785	тут	116	116	ASP	790	
		aat	t t a	+++	taa		aaa	2+2	aas	aaa		20+	~+ ^	+++	++-		2455
										Lys							2433
231	Бец	Non	пец	rne	795	rne	GIY	116	GLY	800	нта	TIII	Val	PHE	805	Leu	
	cca	act	ot a	a++		aaa	at a	222	a+ a	gct	224	+20	+-+	aat		- + -	2503
233	Dro	Ala	Lou	Tla	Dho	λla	y ca Val	Luc	Tou	Ala	Tura	Tur.	Trr.	22c	Cya Nac	Mot	2503
235	110	niu	пси	810	rne	nia	Vai	цуз	815	Ala	пур	TAT	ıyı	820	Ary	Met	
	rat	toa	a a a		a+a	+ 2.0	~a+	as t		gaa	20+	2+2	~~~			+	2551
237	Acn	Cor	Glu	yac Acn	Val	Tur	yaı.	yaı.	Val	Glu	mbr	Tla	Dwo	Mat	aaa t	aat	2551
239	дър	Ser	825	кар	vai	ıyı	АЗР	830	val	GIU	TIIT	116		Met	гуѕ	ASII	•
	2+4	<i>α</i>		~~+	22+	+	~~+				~~+		835				2500
										aaa							2599
242	Met	840	ASII	GIY	ASII	ASII	845	TAT	пIS	Lys	ASP		vaı	туг	GIY	116	
	~~~		aat	~++	a + ~	2.00						850	<b>.</b>				2645
										caa		tga	tago	etgat	gt		2645
		ASII	PLO	vaı	met		ser	Pro	ser	Gln					•		
247						860					865	<b>.</b>					0.00
																agttt	2705
																ctcag	2765
																acaat	2825
∠55	caco	rcat	ag t	.ccat	ggto	c at	cact	atto	aag	gatg	act	ccct	.ccct	tc c	tgto	tattt	2885
257	ctgt	.cctt	ta c	tttt	ttac	a ct	gagt	rtct	att	taga	cac	taca	acat	at g	igggt	gtttg	2945
																acata	3005
																gtgta	3065
																ttata	3125
265	ggac	tttc	tt c	taaa	tgag	c ta	aata	agto	acc	attg	act	tctt	ggtg	ct g	rttga	aaata	3185



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267 atccattttc actaaaagtg tgtgaaacct acagcatatt cttcacgcag agattttcat
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269 ctattatact ttatcaaaga ttggccatgt tccacttgga aatggcatgc aaaagccatc
                                                                         3305
271 atagagaaac ctgcgtaact ccatctgaca aattcaaaag agagagagag atcttgagag
                                                                         3365
273 agaaatgetg ttegtteaaa agtggagttg ttttaacaga tgeeaattae ggtgtacagt
                                                                         3425
275 ttaacagagt tttctgttgc attaggataa acattaattg gagtgcagct aacatgagta
                                                                         3485
277 tcatcagact agtatcaagt gttctaaaat gaaatatgag aagatcctgt cacaattctt
                                                                         3545
279 agatctggtg tccagcatgg atgaaacctt tgagtttggt ccctaaattt gcatgaaagc
                                                                         3605
281 acaaggtaaa tattcatttg cttcaggagt ttcatgttgg atctgtcatt atcaaaagtg
                                                                         3665
283 atcagcaatg aagaactggt cggacaaaat ttaacgttga tgtaatggaa ttccagatgt
285 aggcattccc cccaggtctt ttcatgtgca gattgcagtt ctgattcatt tgaataaaaa
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287 ggaacttgg
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290 <210> SEQ ID NO: 2
291 <211> LENGTH: 865
292 <212> TYPE: PRT
293 <213> ORGANISM: Homo sapiens
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301 Ser Phe Ser Gly Gly Gln Pro Ser Ser Thr Asp Ala Pro Lys Ala Trp
305 Asn Tyr Glu Leu Pro Ala Thr Asn Tyr Glu Thr Gln Asp Ser His Lys
309 Ala Gly Pro Ile Gly Ile Leu Phe Glu Leu Val His Ile Phe Leu Tyr
310
        50
                            55
313 Val Val Gln Pro Arg Asp Phe Pro Glu Asp Thr Leu Arg Lys Phe Leu
                        70
                                            75
317 Gln Lys Ala Tyr Glu Ser Lys Ile Asp Tyr Asp Lys Pro Glu Thr Val
318
                                        90
321 Ile Leu Gly Leu Lys Ile Val Tyr Tyr Glu Ala Gly Ile Ile Leu Cys
                100
                                    105
325 Cys Val Leu Gly Leu Leu Phe Ile Ile Leu Met Pro Leu Val Gly Tyr
            115
                                120
329 Phe Phe Cys Met Cys Arg Cys Cys Asn Lys Cys Gly Glu Met His
                            135
                                                140
333 Gln Arg Gln Lys Glu Asn Gly Pro Phe Leu Arg Lys Cys Phe Ala Ile
334.145
                        150
                                            155
337 Ser Leu Leu Val Ile Cys Ile Ile Ile Ser Ile Gly Ile Phe Tyr Gly
338
                   165
                                        170
341 Phe Val Ala Asn His Gln Val Arg Thr Arg Ile Lys Arg Ser Arg Lys
               180
                                    185
345 Leu Ala Asp Ser Asn Phe Lys Asp Leu Arg Thr Leu Leu Asn Glu Thr
           195
                                200
349 Pro Glu Gln Ile Lys Tyr Ile Leu Ala Gln Tyr Asn Thr Thr Lys Asp
       210
                            215
                                                220
353 Lys Ala Phe Thr Asp Leu Asn Ser Ile Asn Ser Val Leu Gly Gly Gly
                       230
                                            235
357 Ile Leu Asp Arg Leu Arg Pro Asn Ile Ile Pro Val Leu Asp Glu Ile
                    245
                                        250
361 Lys Ser Met Ala Thr Ala Ile Lys Glu Thr Lys Glu Ala Leu Glu Asn
```

```
Seg #5
<210>
         Incomplete response for (213) as

Artificial per new sequence rules section 1.823(6)

See # 11 on the Error Summary Sheet.

Extracellular cytokine receptor motif found in many species.
<211>
<212>
<213> (Artificial
<220>
<223>
<220>
<221>
         UNSURE
<222>
          (3)..(3)
          "Xaa" at position 3 can be any amino acid.
<223>
<400> 5
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Trp Ser Xaa Trp Ser





VERIFICATION SUMMARY PATENT APPLICATION: US/09/828,307

DATE: 04/23/2001 TIME: 13:16:48

Input Set : A:\PTO.txt

Output Set: N:\CRF3\04232001\1828307.raw

 $L:12\ M:270\ C:$  Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:1012 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5 L:1025 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5